

TOP SECRET

KEYHOLE CHANNELS

ONLY

TCS-1093-64-KH

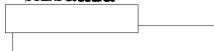
PHOTOGRAPHIC COVERAGE STATISTICS
OF
SATELLITE MISSIONS
1960 THROUGH 1963

The purpose of this publication is to provide a statistical review of the photographic coverage attained by satellite missions in the areas of highest priority. This information will serve as an index to current photographic exploitation, as well as an historical record; but moreover, these data can provide a basis for future planning of photo interpretation activities.

The Coverage Statistics for each satellite mission are compiled on a calendar year basis for 1960, 1961, 1962, 1963 and a concluding table which totalizes coverage attained during the four year period. The data are expressed in linear and square nautical miles and include all photography deemed to have photo interpretation potential, regardless of the amount of cloud cover. However, areas of complete overcast, water, extremely low sun angle, and camera malfunction have been deleted from the statistics. The data compiled for those missions utilizing the KH-4 camera system (convergent stereo throughout) include the coverage afforded by both the forward and aft cameras, whereas the other systems (KH 1, 2, 3, 6, 7) employ a single camera only.

Coverage is designated by three columns; namely, USSR, CHINA and Other Communist Bloc Countries. The latter data pertains to photography of the following countries:

Albania



Cuba



Mongolia

North Korea

North Vietnam



Yugoslavia

25X1

25X1

25X1

25X1

In addition to coverage data, supplementary information is provided for each mission as to date(s) of photography (Greenwich Time), camera system employed, total number of frames, and total film footage.

ATTACHMENT:

1. TABLE 1.
2. TABLE 2.
3. TABLE 3.
4. TABLE 4.
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COVERAGE STATISTICS - 1960
COVERAGE STATISTICS - 1961
COVERAGE STATISTICS - 1962
COVERAGE STATISTICS - 1963
COVERAGE STATISTICS - 1960 - 1963

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TABLE 1

1960

MISSION DATA					1960 PLOTTABLE COVERAGE							
Mission Number	Date(s) of Photography	Camera System	Total No. of Frames	Total Film Footage	USSR		CHINA		Other Communist Bloc Countries		TOTAL	
					L. NM	Sq. NM	L. NM	Sq. NM	L. NM	Sq. NM	L. NM	Sq. NM
9009	18 Aug	KH 1	1,270	3,353	8,063	1,350,600	127	22,200	1,626	198,700	9,816	1,571,500
9013	8-10 Dec	KH 2	2,656	7,012	14,689	2,937,800	2,331	466,200	755	151,000	17,775	3,555,000
TOTALS - 1960 (2 missions)			3,926	10,365	22,752	4,288,400	2,458	488,400	2,381	349,700	27,591	5,126,500

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TABLE 2

1961

MISSION DATA					PLOTTABLE COVERAGE							
Mission Number	Date(s) of Photography	Camera System	Total No. of Frames	Total Film Footage	USSR		CHINA		Other Communist Bloc Countries		TOTAL	
					L. NM	Sq. NM	L. NM.	Sq. NM	L. NM	Sq. NM	L. NM	Sq. NM
9017	17-19 Jun	KH 2	2,454	6,479	15,045	3,009,000	1,250	250,000	816	163,200	17,111	3,422,200
9019	8-9 Jul	KH 2	2,037	5,378	16,666	4,976,300	524	108,500	925	191,400	18,115	5,276,200
9023	1 Sep 30-31 Aug	KH 3	2,575	6,798	9,811	1,564,400	2,503	485,600	1,572	281,500	13,886	2,331,500
9022	12-14 Sep	KH 3	2,681	7,078	13,701	2,371,700	4,151	744,200	1,892	306,100	19,744	3,422,000
9025	13-14 Oct	KH 3	798	2,107	4,517	753,400	580	116,000	0	0	5,097	869,400
9028	16-17 Nov	KH 2	950	2,508	2,863	516,600	1,649	311,000	518	99,000	5,030	926,600
9029	12-16 Dec	KH 3	2,762	7,292	12,784	2,361,400	6,329	1,196,300	1,828	347,500	20,941	3,905,200
			<i>18 Passes</i>									
TOTALS - 1961 (7 missions)			14,257	37,640	75,387	15,552,800	16,986	3,211,600	7,551	1,388,700	99,924	20,153,100

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INTERVIEW VIA TALENT-
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TABLE 3

COVERAGE STATISTICS

1962

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MISSION DATA					PLOTTABLE COVERAGE							
Mission Number	Date(s) of Photography	Camera System	Total No. of Frames	Total Film Footage	USSR		CHINA		Other Communist Bloc Countries		TOTAL	
					L. NM	Sq. NM	L. NM	Sq. NM	L. NM	Sq. NM	L. NM	Sq. NM
9031	27-28 Feb 1-3 Mar	KH 4	5,457	14,409	33,107	5,172,600	4,546	720,200	1,408	235,500	39,061	6,128,300
9032	18-20 Apr 30-31 May	KH 4	3,335	8,814	25,343	5,600,700	5,558	898,500	2,235	444,100	33,136	6,943,300
9035	1-2 Jun	KH 4	5,667	14,919	46,472	9,027,000	5,683	1,099,900	3,301	644,400	55,456	10,771,300
9037	23-26 Jun	KH 4	5,696	15,011	46,912	8,400,100	5,360	904,000	3,347	598,900	55,619	9,903,000
9038	28-30 Jun 1-2 Jul	KH 4	5,427	14,300	47,473	12,239,700	5,144	1,405,800	5,142	1,473,700	57,759	15,119,200
9039	23 Jul	KH 4	1,148	3,036	10,140	2,053,100	317	55,100	329	37,900	10,786	2,146,100
9040	28-31 Jul	KH 4	5,693	15,015	52,421	11,023,000	3,857	876,900	4,764	919,100	61,042	12,819,000
9041	2-6 Aug	KH 4	5,394	14,139	51,412	9,947,600	3,307	621,000	4,107	774,600	58,826	11,343,200
9044	29-31 Aug 1-2 Sep	KH 4	5,638	14,864	51,636	11,188,800	7,947	1,851,600	8,334	1,837,900	67,917	14,878,300
9043	18-19 Sep 30 Sep	KH 4	3,116	8,241	22,688	3,483,900	1,966	359,400	1,807	329,000	26,461	4,172,300
9045	1-2 Oct	KH 4	4,824	12,742	26,899	4,803,100	4,928	950,400	2,384	401,900	34,211	6,155,400
9047	5-9 Nov	KH 4	5,826	15,352	26,890	4,552,300	7,311	1,177,700	3,536	597,700	37,737	6,327,700
9048	24-29 Nov	KH 4	5,648	14,873	23,066	4,058,000	7,545	1,227,800	2,045	341,800	32,656	5,627,600
9050	15-18 Dec	KH 4	5,638	14,854	20,641	3,537,400	18,014	2,969,900	3,027	426,000	41,682	6,933,300
TOTALS - 1962 (14 missions)			68,507	180,569	485,100	95,087,300	81,483	15,118,200	45,766	9,062,500	612,349	119,268,000

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TABLE 4

COVERAGE STATISTICS

1963

MISSION DATA					PLOTTABLE COVERAGE							
Mission Number	Date(s) of Photography	Camera System	Total No. of Frames	Total Film Footage	USSR		CHINA		Other Communist Bloc Countries		TOTAL	
					L. NM	Sq. NM	L. NM	Sq. NM	L. NM	Sq. NM	L. NM	Sq. NM
9053	2-4 Apr	KH 4	4,842	12,765	27,032	4,615,300	6,598	1,114,000	1,256	211,200	34,886	5,940,500
9054	13-16 Jun	KH 4	5,626	14,810	37,984	7,322,200	2,157	357,400	2,344	469,900	42,485	8,149,500
9056	27-30 Jun	KH 4	5,781	15,560	34,562	6,643,500	5,370	873,400	2,141	356,800	42,073	7,873,700
4001	13 Jul	KH 7	63	822	2,335	27,800	1,059	12,700	380	4,600	3,774	45,100
9057	19-22 Jul	KH 4	5,443	14,091	39,362	6,110,900	6,203	1,030,500	2,565	391,400	48,130	7,532,800
8003	31 Jul 1 Aug	KH 6	908	2,001	2,726	104,500	304	11,700	191	5,900	3,221	122,100
1001-1	25-29 Aug	KH 4	5,800	14,643	41,293	6,627,200	6,494	971,600	2,040	298,100	49,827	7,896,900
4002	7-8 Sep	KH 7	172	1,500	7,460	74,600	2,105	21,100	731	7,300	10,296	103,000
1002-1	24-26 Sep	KH 4	5,617	14,791	31,035	4,575,900	6,803	954,200	3,709	545,500	41,547	6,075,600
4003	26-27 Oct	KH 7	134	656	2,343	25,900	843	9,700	45	600	3,231	36,200
9062	22-26 Dec	KH 4	5,698	15,156	33,965	4,997,800	3,520	435,200	1,667	242,300	39,152	5,675,300
TOTALS - 1963 (11 missions)					260,097	41,125,600	41,456	5,791,500	17,069	2,533,600	138,622	49,450,700
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TABLE 5HANDLE VIA TALENT-
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ONLYCOVERAGE STATISTICS
1960 - 1963

CAMERA SYSTEM DATA				PLOTTABLE COVERAGE							
Camera System	Total No. of Mems.	Total No. of Frames	Total Film Footage	USSR		CHINA		Other Communist Bloc Countries		Camera System TOTAL	
				L. NM.	Sq. NM.	L. NM.	Sq. NM.	L. NM.	Sq. NM.	L. NM.	Sq. NM.
Y 1	1	1,270	3,353	8,063	1,350,600	127	22,200	1,626	198,700	9,816	1,571,500
KH 2	4	8,097	21,377	49,263	11,439,700	5,754	1,135,700	3,014	604,600	58,031	13,180,000
KH 3	4	8,816	23,275	40,813	7,050,900	13,563	2,542,100	5,292	935,100	59,668	10,528,100
KH 4	21	107,314	282,385	730,333	135,980,100	118,628	20,854,500	61,488	11,577,700	910,449	168,412,300
KH 6	1	908	2,001	2,726	104,500	304	11,700	191	5,900	3,221	122,100
KH 7	3	369	2,978	12,138	128,300	4,007	43,500	1,156	12,500	17,301	184,300
TOTAL	34	126,774	335,369	843,336	156,054,100	142,383	24,609,700	72,767	13,334,500	1,058,486	193,998,300

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